

**FIBER RAMAN LASER**

Patent Number: JP59165488  
Publication date: 1984-09-18  
Inventor(s): AOKI TAKAHIRO  
Applicant(s): NIPPON DENKI KK  
Requested Patent: ☐ JP59165488  
Application Number: JP19830039858 19830310  
Priority Number(s):  
IPC Classification: H01S3/30; H01S3/094  
EC Classification:  
Equivalents:

---

**Abstract**

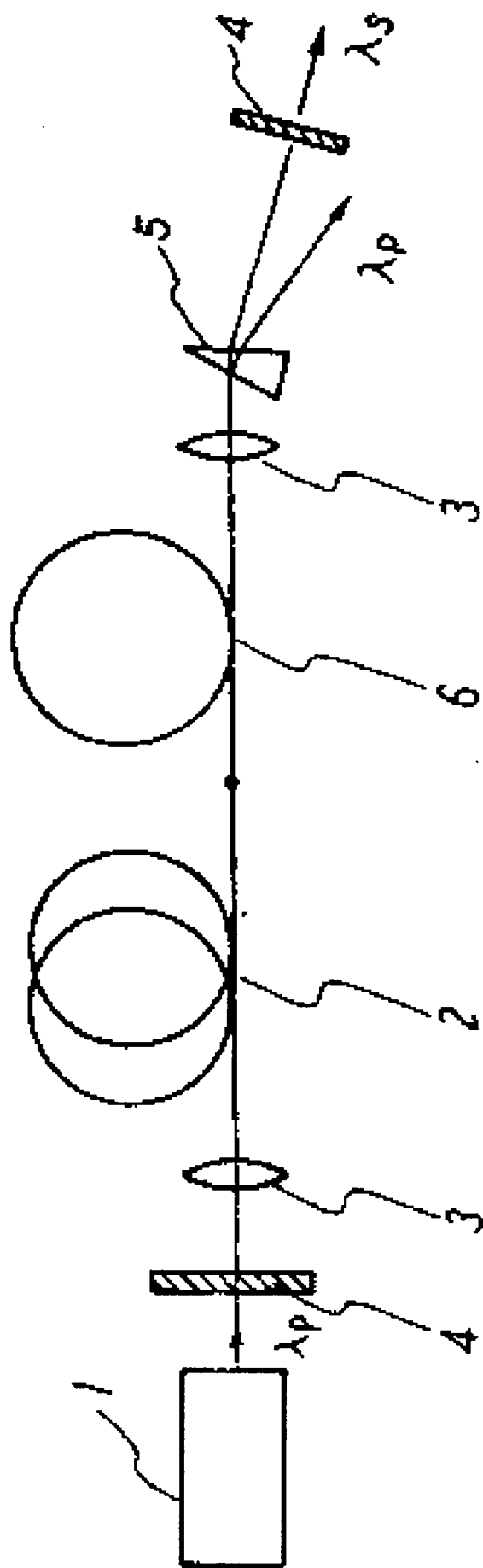
---

**PURPOSE:**To obtain a fiber Raman laser which has a simple structure and can readily alter its output wavelength by compensating the group delay time difference between a pumping optical pulse generated from the first optical fiber and an induced Raman optical pulse by the second optical fiber.

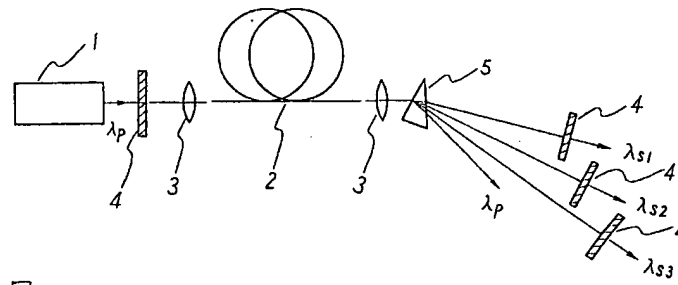
**CONSTITUTION:**An optical fiber of a fiber Raman laser which has an optical fiber for generating an induced Raman light, a pumping pulse laser source 1 of the optical fiber, and a pair of induced Raman light reflecting mirrors 4 disposed at both ends of the optical fiber is composed of the first optical fiber 2 having the first zero dispersion wavelength and the second optical fiber 6 having the second zero dispersion wavelength, connected in cascade thereto. The wavelength of the source 1 is between the first zero dispersion wavelength and the second zero dispersion wavelength, and the second optical fiber 6 has an induced Raman light pulse generated in the Raman gain band of the first optical fiber 2 and a length for compensating the group delay time difference between the pumping optical pulses.

---

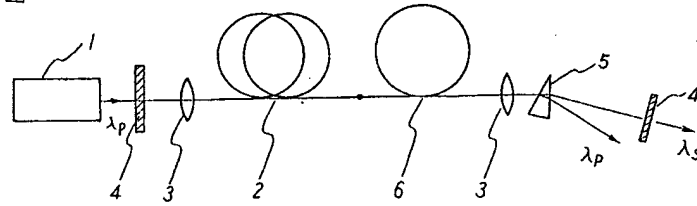
Data supplied from the esp@cenet database - I2



第 1 図



第 2 図



第 3 図

